NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-WMM-4 Date: 17-02-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	97.80	95-100
26.50	---	-
22.40	71.50	60-80
11.20	49.10	40-60
4.75	33.00	25-40
2.36	23.40	15-30
0.600	14.90	8-22
0.075	4.50	0-8

*As Furnished by Client
The Results relate only to the items tested

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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EMAIL:newzen576@gmail.com

NEWZEN CONSULTANT BANGALORE

Date: 17-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	25.00 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	27.30	Not more than 30.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

*As furnished by Client.

Note: The Results relate only to the items tested

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/MT/2016-17/SPH-WMM-5 Date: 17-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**98.40**	95-100
26.50	---	-
22.40	**64.20**	60-80
11.20	**42.90**	40-60
4.75	**30.40**	25-40
2.36	**16.70**	15-30
0.600	**11.30**	8-22
0.075	**3.80**	0-8

*As Furnished by Client

The Results relate only to the items tested

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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EMAIL:newzen576@gmail.com

Date: 17-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	22.39 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	26.15	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT * BANGALORE *

NC/MT/2016-17/SPH-WMM-6 Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**96.80**	95-100
26.50	---	-
22.40	**73.50**	60-80
11.20	**48.10**	40-60
4.75	**35.00**	25-40
2.36	**19.60**	15-30
0.600	**11.10**	8-22
0.075	**4.50**	0-8

*As Furnished by Client

The Results relate only to the items tested

KIRAN. R

Page No. 1/2,

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-WMM-7 Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	96.90	95-100
26.50	---	-
22.40	71.40	60-80
11.20	48.70	40-60
4.75	39.00	25-40
2.36	19.20	15-30
0.600	13.50	8-22
0.075	4.10	0-8

*As Furnished by Client

The Results relate only to the items tested

KIRAN. R
B.E Civil Engg.

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANT BANGALORE

Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	22.37 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	28.49	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

KIRAN. R

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NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-WMM-8 Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**98.60**	95-100
26.50	---	-
22.40	**70.10**	60-80
11.20	**48.50**	40-60
4.75	**36.10**	25-40
2.36	**23.40**	15-30
0.600	**14.70**	8-22
0.075	**6.40**	0-8

*As Furnished by Client

The Results relate only to the items tested

KIRAN. R

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Proprietor

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NEWZEN CONSULTANT BANGALORE

Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	24.07 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	27.50	Not more than 30.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

AE

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-WMM-9 Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**97.40**	95-100
26.50	---	-
22.40	**64.20**	60-80
11.20	**43.60**	40-60
4.75	**32.10**	25-40
2.36	**20.90**	15-30
0.600	**16.40**	8-22
0.075	**6.60**	0-8

*As Furnished by Client

The Results relate only to the items tested

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Proprietor

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NEWZEN CONSULTANT BANGALORE

Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, IV Revision -2001.
1	Aggregate Impact Value	22.89 %	Not more than 24 00 % for BC Not more than 27 00 % for DBM Not more than 30 00 % for BM/WMM
2	Combined Flakiness and Elongation index, %	27.98	Not more than 30.0 %
3	Water absorption, %	0.36 %	Not more than 2.0 %
4	Plasticity Index, %	NP	Not more than 6 0 %

KIRAN. R

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NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-WMM-10 Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project* Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no 05, Byatarayanapura Sub- Division }

Ref. . Material testing/YNK-SPH/16-17,

Report Required for Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor* Sri G. N Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	96.10	95-100
26.50	---	-
22.40	64.70	60-80
11.20	44.60	40-60
4.75	30.20	25-40
2.36	24.90	15-30
0.600	16.10	8-22
0.075	4.30	0-8

*As Furnished by Client
The Results relate only to the items tested

KIRAN. R

For Newzen Consultants Bangalore

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NEWZEN CONSULTANT BANGALORE

Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, IV Revision -2001
1.	Aggregate Impact Value	23.07 %	Not more than 24 00 % for BC Not more than 27 00 % for DBM Not more than 30 00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.18	Not more than 30 0 %
3.	Water absorption, %	0.36 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

AE

K. R

KIRAN. R

For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-BT-1

Date: 17-02-2017

I. TEST REPORT ON BITUMEN SAMPLE:

Sub. Testing of Bitumen sample VG-30 Grade
(Project* Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no 05, Byatarayanapura Sub- Division.)

Ref. : Material testing/YNK-SPH/16-17,

Report Required for. Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor* Sri G. N. Ramesh,
Contractor, Bangalore

Technical Reference. Ministry of Road Transport and Highways, IV Revision, 2001 and IS 73: 1992

TEST RESULTS

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I S 73 –1992 Specifications
1	Penetration at 25° C	46.0 Min	Min 45
2	Ductility Value at 25° C	87.0 cm	40 cm
3	Flash point	225° C	Minimum 220 °C
4.	Softening point	51.3° C	Min 47

*As furnished by Client.
The results relate only to the samples tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-CA-2 Date: 17-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub Testing of Coarse Aggregate used for Dense Bituminous Macadam.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. Material testing/YNK-SPH/16-17,

Report Required for Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency/Contractor*: Sri G N Ramesh,
Contractor, Bangalore.

TEST RESULTS

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, IV Revision -2001
1	Aggregate Impact Value, %	23.47	Not more than 24 00 % for BC Not more than 27 00 % for DBM Not more than 30 00 % for BM W MM
2	Combined Flakiness and Elongation index, %	24.98	Not more than 30 0 %
3	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Specific gravity	2.442	-------
5.	Soundness	5.90 %	Max. 12 5 in Sodium Sulphate

*As furnished by Client
The results relate only to the samples tested

KIRAN. R

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-CA-3 Date: 20-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub Testing of Coarse Aggregate used for Dense Bitummous Macadam
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. Material testing/YNK-SPH/16-17,

Report Required for. Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency Contractor*: Sri G N Ramesh,
Contractor, Bangalore

TEST RESULTS

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383 1970 & M o R T H Specification, IV Revision -2001
1	Aggregate Impact Value, %	23.64	Not more than 24 00 % for BC Not more than 27 00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	25.39	Not more than 30.0 %
3	Water absorption, %	0.35 %	Not more than 2 0 %
4	Specific gravity	2.445	------
5.	Soundness	5.84 %	Max. 12 5 in Sodium Sulphate

*As furnished by Client.
The results relate only to the samples tested.

KIRAN. R
M.E Civil Engg.

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-DBM-1

Date: 20-02-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample.
{Project*, Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency/Contractor* Sri G N Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %.**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick as per Table 5 of 1600 of MoRTH Specifications V Revision-200
37.5	**100.00**	100
26.5	**95.20**	90-100
19	**83.00**	71-95
13.2	**74.00**	56-80
4.75	**43.00**	38-54
2.36	**32.60**	28-42
0.3	**17.80**	7-21
0.075	**5.10**	2-8

*As Furnished by Client.
The Results relate only to the items tested

KIRAN. R

Page No. 1/1

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-DBM-2

Date: 20-02-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample
{Project* Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. Material testing/YNK-SPH/16-17,

Report Required for. Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor* Sri G. N Ramesh,
Contractor, Bangalore

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test – **4.50 %.**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick ,as per Table 500-10 of M o R T H Specifications-IV Revision-2001
37 5	**100.00**	100
26 5	**98.10**	90-100
19	**86.70**	71 95
13 2	**79.50**	56-80
4 75	**41.20**	38-54
2 36	**33.70**	28-42
0 3	**14.90**	7-21
0 075	**4.60**	2-8

*As Furnished by Client.
The Results relate only to the items tested

KIRAN. R

For Ne...

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-DBM-3

Date: 21-02-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub To determine the percentage of bitumen and gradation for DBM Mix Sample
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no 05, Byatarayanapura Sub- Division }

Ref. . Material testing/YNK-SPH/16-17,

Report Required for. Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency/Contractor*: Sri G N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %.**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick ,as per Table 500-10 of M o R T H Specifications IV Revision-200
37 5	**100.00**	100
26 5	**96.20**	90-100
19	**82.70**	71-95
13 2	**70.10**	56-80
4 75	**49.80**	38-54
2 36	**35.40**	28-42
0 3	**14.90**	7-21
0 075	**3.50**	2-8

*As Furnished by Client.

The Results relate only to the items tested

KIRAN. R

Page No. 1/1

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-DBM-4 **Date: 21-02-2017**

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub To determine the percentage of bitumen and gradation for DBM Mix Sample.
{Project*. Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no 05, Byatarayanapura Sub- Division }

Ref. Material testing. YNK-SPH/16-17,

Report Required for Executive Engineer.
Yelahanka Projects.
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %.**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick ,as per Table 500-10 of M o R T H Specifications-IV Revision-2001
37.5	**100.00**	100
26 5	**99.10**	90-100
19	**87.60**	71-95
13 2	**59.80**	56-80
4 75	**41.50**	38-54
2 36	**37.20**	28-42
0 3	**15.70**	7-21
0 075	**6.00**	2-8

*As Furnished by Client
The Results relate only to the items tested

KIRAN. R

Page No. 1/1

For Newzen Consultants Bangalore

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NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-BT-2

Date: 20-02-2017

1. TEST REPORT ON BITUMEN SAMPLE:

Sub Testing of Bitumen sample VG-30 Grade
'Project' Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.]

Ref. Material testing/YNK-SPH/16-17,

Report Required for Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

Technical Reference. Ministry of Road Transport and Highways, IV Revision, 2001 and IS 73. 1992

TEST RESULTS

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I S 73 1992 Specifications
1.	Penetration at 25^0 C	51.0 Min	Min 45
2	Ductility Value at 25^0 C	95.0 cm	40
3.	Flash point	236^0 C	Minimum 220^0 C
4.	Softening point	52.0^0 C	Min. 47

*As furnished by Client.

The results relate only to the samples tested.

KIRAN. R

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-CA-4

Date: 20-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used for Bituminous Concrete.
(Project* Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division)

Ref. . Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore

TEST RESULTS

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T.H Specification. IV Revision -2001
1	Aggregate Impact Value, %	22.51	Not more than 24 00 % for BC Not more than 27 00 % for DBM Not more than 30 00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.19	Not more than 30 0 %
3	Water absorption, %	0.34 %	Not more than 2.0 %
4.	Specific gravity	2.451	------
5.	Soundness	5.74%	Max 12 5 in Sodium Sulphate

*As furnished by Client

The results relate only to the samples tested.

KIRAN. R

For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-CA-5

Date: 22-02-2017

I. TEST REPORT ON COARSE AGGREGATE:

Sub. Testing of Coarse Aggregate used for Bituminous Concrete.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division }

Ref. . Material testing/YNK-SPH/16-17,

Report Required for Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore

TEST RESULTS

TABLE I.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, IV Revision -2001.
1.	Aggregate Impact Value, %	22.84	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.45	Not more than 30.0 %
3.	Water absorption, %	0.34 %	Not more than 2.0 %
4.	Specific gravity	2.455	----
5	Soundness	5.50 %	Max. 12 % in Sodium Sulphate

*As furnished by Client
The results relate only to the samples tested

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/MT/2016-17/SPH-BC-1 Date: 22-02-2017

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.02 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 BC (Grading – 2)
19.0	**100**	100
13.2	**92.90**	79-100
9.5	**85.20**	70-88
4.75	**66.50**	53-71
2.36	**51.30**	42-58
1.18	**43.90**	34-48
0.600	**32.60**	26-38
0.300	**19.10**	18-28
0.150	**14.80**	12-20
0.075	**6.40**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

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NC/MT/2016-17/SPH-BC-2 Date: 22-02-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.01 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 BC (Grading – 2)
19.0	100	100
13.2	92.50	79-100
9.5	84.10	70-88
4.75	66.90	53-71
2.36	47.20	42-58
1.18	39.60	34-48
0.600	27.50	26-38
0.300	25.80	18-28
0.150	17.30	12-20
0.075	7.90	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANT BANGALORE

NC/MT/2016-17/SPH-BC-3 Date: 23-02-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.03 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 BC (Grading – 2)
19.0	**100**	100
13.2	**98.60**	79-100
9.5	**85.20**	70-88
4.75	**66.90**	53-71
2.36	**51.40**	42-58
1.18	**43.70**	34-48
0.600	**34.60**	26-38
0.300	**20.10**	18-28
0.150	**16.30**	12-20
0.075	**8.50**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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NC/MT/2016-17/SPH-BC-4 Date: 23-02-2017

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Widening and Asphalting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.04 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 BC (Grading – 2)
19.0	**100**	100
13.2	**94.10**	79-100
9.5	**71.30**	70-88
4.75	**57.80**	53-71
2.36	**44.00**	42-58
1.18	**36.90**	34-48
0.600	**32.70**	26-38
0.300	**20.20**	18-28
0.150	**18.50**	12-20
0.075	**5.90**	4-10

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R

For Newzen Consultants Bangalore

Proprietor

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